

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

*In re Application of* )  
                                    ) (Prior Group Art Unit: 1642)  
David HUNG                    )  
                                    ) (Prior Examiner: S. Huff)  
Serial No. tba                )  
                                    )  
Filed: even herewith         ) Atty. Dkt. No. 005284.00195

For: **IDENTIFYING MATERIAL FROM A BREAST DUCT**

**INFORMATION DISCLOSURE STATEMENT**

MAIL STOP PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, enclosed are four PTO Forms-1449 listing documents for consideration by the Examiner during the prosecution of the subject application. All cited art was previously disclosed or cited in parent application Serial No. 09/625,399 filed July 26, 2000. Copies of the cited art are available in the parent application.

Applicant wishes to call the Examiner's attention to the allowed claims of parent application Serial No. 09/625,399 and of Serial No. 09/800,970. Both applications are listed on an enclosed PTO Form-1449.

Respectfully submitted,

Dated: July 21, 2003

By: Lisa M. Hemmendinger  
Lisa M. Hemmendinger  
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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Attorney Docket No.: 005284.00195	Application No.: tba		
			Applicant: DAVID T. HUNG			
			Filing Date: July 21, 2003	Group: tba		
Reference Designation		U.S. PATENT DOCUMENTS			Page 1 of 4	
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
AA	4,782,015	11/1/88	Allison et al.			
AB	5,478,556	12/26/95	Elliot et al.			
AC	5,652,115	07/29/97	Marks et al.			
AD	5,763,415	06/09/98	Sukamar			
AE	5,798,266	8/25/98	Quay et al.			
AF	5,914,238	6/22/99	Keesee et al.			
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
AG	EP0319686	06/14/89	Europe			
AH	WO 97/05898	2/20/97	PCT			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
AI	Barnes and Masood, "Potential value of hormone receptor assay in carcinoma in situ of breast" A.J.C.P., Nov. 1990, vol. 94, no. 5, 533-537					
AJ	Barnes et al. "Low nm23 protein expression in infiltrating ductal breast carcinomas correlates with reduced patient survival" Am J. Path; vol. 139, no. 2, 8/91					
AK	Berntsen et al. "Influence of Treatment with Aminoglutethimide on Plasma and Red-Blood-Cell Glutathione Status in Breast Cancer Patients." Cancer Chemother Pharmacol. 1998. Vol 42, pages 46-52.					
AL	Bocuzzi et al. "Breast Duct Fluid Dehydroepiandrosterone sulphate in Fibrocystic Disease." European J. Cancer and Clinical Oncology. August 1987. Vol 23, pages 1099-1102					
AM	"Cancer detection techniques shown." Santa Barbara News Press 8/3/71					
AN	Cassels, "New test may speed breast cancer detection." The Medical Post March 20, 1973					
AO	Ernster et al. "Benign and malignant breast disease: initial study results of serum and breast fluid analyses of endogenous estrogens." JNCI vol 79 no. 5					
AP	Fabian, et al. "Biomarker and cytologic abnormalities in women at high and low risk for breast cancer" J of Cellular Biochemistry 17G:153-160 (1993)					
AQ	Fabian, et al. "Prevalence of abnormal biomarkers in fine needle breast aspirates in high risk populations." 1993 Proc. Ann Meeting Am Assoc. Cancer Res. 34:A1556					
AR	"Finding asymptomatic breast cancer." Medical World News July 23, 1971					
AS	Fryckberg, et al. "Ductal carcinoma in situ of the breast." Surgery, Gynecology & Obstetrics 10/93 vol 177					
AT	Gilbert, et al. "A pilot study of Pi-class glutathione s-transferase expression in breast cancer: correlation with estrogen receptor expression and prognosis in node-negative breast cancer." J. of Clin Oncology, vol 11, no. 1 1/93:pp 49-58					
AU	Goodson & King. "Discharges and secretions of the nipple. The Breast, Comprehensive management of benign and malignant diseases" 2nd ed vol 2. 1998					
AV	Head et al. assessment of immunologic competence and host reactivity against tumor antigens in breast cancer with vaccines. vol. 690 of the Annals of the NY Academy of Sciences 8/12/93					
AW	Imayama, et al. "Presence of elevated carcinoembryonic antigen on absorbent disks applied to nipple are of breast carcinoma patients." Cancer Sept 15, 1996 vol 78 no. 6					
AX	JAMA May 7, 1973; vol 224, no. 6 pgs 823-827					
AY	King, et al. "Analytic studies of foam cells from breast cancer precursors." Cytometry 5:124-130 (1984)					

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		Filing Date: July 21, 2003	
AZ	King, et al. "Cellular composition of the nipple aspirate specimen of breast fluid." AJCP vol 64 Dec 1975 pp 728-738		
BA	Kristensen et al. "A rare CYP19 (aromatase) variant may increase the risk of breast cancer." Pharmacogenetics. 1998. Vol. 8, pages 43-48		
BB	Lobsenz. "A new way to detect breast cancer early." Good House Keeping Jan 1975		
BC	Love et al., "Breast-duct Endoscopy to Study Stages of Cancerous Breast Disease." 12 October 1996. Vol. 348 pages 997-999.		
BD	Love. "Collection and analysis of nipple aspirate fluid in the early detection of breast cancer." Windy Hill Technology, Inc. NAF Focus Group Study September 18, 1998		
BE	Lu et al. "The Effects of Aromatase Inhibitors and Antiestrogens in the Nude Mouse Model." Breast Cancer Research and Treatment 1998. Vol 50, pages 63-71		
BF	Masood & Johnson. "The value of imprint cytology in cytochemical detection of steroid hormone receptors in breast cancer." AJCP vol 87 No 1 pp 30-36		
BG	Masood, et al. "Breast health Challenges and Promises." J. Florida M.A. Aug/Sept 1996/Vol. 83, No. 7 pp 459-465		
BH	Masood. "Fluorescent cytochemical detection of estrogen and progesterone receptors in breast fine-needle aspirates." AJCP 1/91		
BI	Masood. "The missing link: a 'pap smear' for early breast cancer detection and prevention." The Breast Journal, vol 5 number 1, 1999 pp. 1-2		
BJ	Nass, et al. "Breast cancer biology blossoms in the clinic." Nature Medicine vol 4 No. 7 July 1998		
BK	Newman, et al, J Natl Cancer Inst. 1979 Dec. 63(6):1339-46		
BL	North, et al. "Vasopressin gene related products are markers of human breast cancer." Breast Cancer Research and Treatment 34:229-235, 1995		
BM	Okazaki, et al "Relationship between cytologic results and the extent of intraductal spread in nonpalpable breast cancers with nipple discharge" Tumor Res. 31, 89-97 (1996)		
BN	Papanicolaou et al. "Exfoliative cytology of the human mammary gland and its value in the diagnosis of cancer and other diseases of the breast." Cancer March-April 1958, 11(2): 377-409		
BO	Pertschuk et al. "Estrogen receptor immunochemistry in endometrial carcinoma." Gynecologic Oncology 63, 28-33 (1996) pp28-33		
BP	Petrakis & King. "Genetic markers and cancer epidemiology." Cancer April supp 1977 vol 39 pp1861-1866		
BQ	Petrakis et al. "Epithelial dysplasia in nipple aspirates of breast fluid: association with family history and other breast cancer risk factors." JNCI vol 68 no. 1 1/82		
BR	Petrakis; "Nipple aspirate fluid in epidemiologic studies of breast disease." Epidemiologic Reviews vol 15 no. 1 1993		
BS	Phillips, et al. "Nipple Aspirate Fluid in Relation to breast Cancer." The Breast. Auust 1999, Vol. 8, No. 4, pages 169-174		
BT	Rose, et al. "A Comparison of Serum and Breast Duct Fluid Immunoassayable prolactin and Growth Hormone in Women and Patients with Cystic Breast Disease." Cancer, December 1, 1987. Vol 60. No. 11, pages 2761-2765.		
BU	Rose. "Hormones and Growth factors in Nipple aspirates from normal women and benign breast disease patients." Cancer Detection and Prevention vol 16, Issue 1 1992		
BV	Rosner et al. "Diagnosis of breast carcinoma with radiolabeled monoclonal antibodies to carcinoembryonic antigen and human milk fat globulin." Cancer Investigation, 13(6), 573-582 (1995)		
BW	Sartorius et al. "The biochemistry of breast cyst fluids and duct secretions." Breast Cancer Research and Treatment 35:255-266 1995		
BX	Sartorius, "Cytologic evaluation of breast fluid in the detection of breast disease" J Nat'l Cancer Inst vol 59 no. 4 Oct 1977 pp. 1073-1080		
BY	Sauter et al, "Nipple aspirate fluid: a promising non-invasive method to identify cellular markers of breast cancer risk" 1997 British J. Cancer 76(4):494-501		
BZ	Sauter et al. "Prostate specific antigen levels in nipple aspirate fluid correlate with breast cancer risk, Cancer Epidemiology vol. 5, 967-970, 12/96		
CA	Strah & Love. "The in situ carcinomas of the breast." JAMWA vol 47 No 5 sept /Oct 1992		

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		Filing Date: July 21, 2003	Group: tba
CB	Sukumar & McKenzie, "Molecular genetics of human breast cancer." Cellular and molecular mechanisms of hormonal carcinogenesis: Environmental influences, ISBN 0-471-02202-0 1996		
CC	Sukumar & McKenzie, "Breast cancer prevention strategies for the twenty first century" Molecular Medicine Today 11/96		
CD	Vetvicka, et al. "Human breast milk contains procathepsin D-detection by specific antibodies." Biochemistry and Molecular Biology International vol 30, no. 5, 8/93 pp. 921-928		
CE	Vorherr, H. "Endocrinology of Breast Cancer." Maturitas. 1987, Vol. 9, pages 113-122		
CF	Wrensch, et al. "Breast cancer risk associated with abnormal cytology in nipple aspirates of breast fluid and prior history of breast biopsy." Am J. of Epidemiology vol 137 no. 8 1993		
CG	Wrensch, et al. "Breast cancer incidence in women with abnormal cytology in nipple aspirates of breast fluid" Am. J. of Epidemiology vol 135 no. 2 1992		
CH	Wynder et al. "Breast Secretion in Finnish Women: a metabolic epidemiologic study," Cancer 47: 1444-1450, 1981		
CI	Wynder et al, "Prolactin Oestrogen, and Lipids in Breast Fluid." The Lancet 22 October 1977. Vol. 2 No. 8043, pages 840-842.		
CJ	Zippin & Petrakis, "Identification of high risk groups in breast cancer." Cancer vol 28 pp 1381-1387 Dec 1971		
CK	"Pap' test for breast cancer" periodical clipping re: Dr. Sartorius		
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	tba
				Filing Date	July 21, 2003
				First Named Inventor	David T. Hung
				Group Art Unit	tba
				Examiner Name	tba
Sheet	4	of	4	Attorney Docket Number	005284.00195

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
CL		Serial No. 09/625,399		Hung	
CM		Serial No. 09/800,970		Hung	

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
CN		WO 00/70349	11-23-2000		

<b>OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
CO		Azavedo et al., Anticancer Research 6:263-266, 1986.			
CP		Database Embase on Dialog. No. 06717313, Chinese Journal of Clinical Oncology 23/6:381-385, 1996.			
CQ		Hou et al., Radiology, Vol. 195 p. 568 (1995).			

Examiner Signature	Date Considered
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.